ELECTRICAL (EL) PRE-UNDERWAY PHASE DDG 51

3241	SHIPS SERVICE GAS TURBINE GENERATORS	
CON	MPONENT/SYSTEM	PROPOSED PROCEDURE
Test Dead Bus Pick-Up		A-10 (51-78)
NOTE: GTG Circuit breakers will not close automatically.		A-16 (79+)
Test Reverse Power Relays		3113 R-18 (51-78)
		A-17R (79+)
Test Auto Paralleling Device		A-8R (55-58)
		A-9R (59+)
Test Parallel Operation		IAW EOP
Test Fault Current Detect		A-11R (51-54)
		A-12R (55-58)
		A-14R / A-15R (79+)
Test Manual Load Shedding		18M-3
3140	3140 400 HERTZ DISTRIBUTION SYSTEM (CONVERTERS)	
CON	MPONENT/SYSTEM	PROPOSED PROCEDURE
Test Split and Parallel Operation		IAW EOP / CSOSS
4221	TELL-TALE PANEL/NAVIGA	TION SIGNAL LIGHT PANEL
CON	APONENT/SYSTEM	PROPOSED PROCEDURE
Test Navigation	al Lighting Panel	R-2
Measure insulation resistance of Navigational S-1 Lighting Panel.		S-1

Measure insulation Panel.	on resistance of Signal Light	S-1
4331	ANNOUNCING SYSTEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test General, Chemical, and Collision Alarms from all stations		Q-1R
Test 1MC from a	ll stations	Q-1R A-1
Test 5MC Operat	ion	Q-2R
Test 21MC Opera	ation	Conduct Operational Test
4751	DEGAUSSING SYSTEM	
COM	PONENT/SYSTEM	PROPOSED PROCEDURE
Conduct Linearity	y Test	Q-1
Conduct ground test.		M-2
Inspect Degaussing Folder		NAVSEA TECH MANUAL
3241	AUTOMATIC BUS TRANSFER EQUIPMENT	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test all Engineering ABTs		Q-2R
Test all remaining	g ABTs. (Day 2)	Q-2R / S-4R
4371	RO UNITS	
COM	PONENT/SYSTEM	PROPOSED PROCEDURE
Test dump valve	operation	S-2
Test alarms/settings		S-2
4373	WIND INDICA	TING SYSTEM
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test System For Proper Operation		R-1M

5081	THERMAL IMAGING SURVEY	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Commence Thermal Imaging Throughout The Ship NOTE: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification		R-1 / R-2
2521	UNINTERRUPTED POWER SUPPLIES (UPS)	
COMPONEN	T/SYSTEM	PROPOSED PROCEDURE
Test EPCC for Proper Operation.		A-3
Test PACC for Proper Operation.		A-2
Test SCU-1 for Proper Operation.		A-6
Test SCU-2 for Proper Operation.		A-6

ELECTRICAL (EL) UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

· · · · · · · · · · · · · · · · · · ·	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POV	WER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	SPRU
receptacles and the ship's switchboard insulation	NSTM 300/320
resistance within EOSS or PMS Limits	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current	GSO 320D
standards:	
 Have a Viking Connector System 	
 Have AQB-LF400 Amp Circuit Breaker 	
with shunt trip	
- Have a phase sequencing and phase	
orientation devices.	
- Have installed ammeter and selector switch	
to monitor total shore power current.	

(INSPECT) CATHODIC PROTEC	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the installed Cathodic Protection System operative and adjusted	GSO 633C
Were the rudder grounding straps made of 1-1/2 inch	NSTM 633 – 3.3.2.7
wide braided copper and brazed to the rudder stock and the hull?	GSO 633C
Has the system been turned off greater than 15 days?	GSO 633G
Was brush rigging correctly installed?	NSTM 633- 3.3.2.6
Were shaft grounding brushes correctly installed?	NSTM 633
	ICCP Tech Manual
Did shaft grounding brushes exhibit full contact with	NSTM 633 – 3.3.2.6
the slip ring?	ICCP TECH MANUAL
(INSPECT / TEST) ALARM S	SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test alarm switchboards and panels.	4351/Q-2
Were any alarm and warning systems inoperative or missing parts?	GSO 433J
(INSPECT) ORDER/INDICATING/ME	TERING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B
	IAW PMS
MOTOR CONTROLLE	ERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained	NSTM 302-3.3.2
gear adrift?	GSO 320F
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1	
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1	
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G	
Were switches protected against inadvertent activation?	GSO 070H	
Were controllers with multiple power sources properly labeled?	GSO 305C	
Were motor foundations properly preserved?	GSO 631J	
Were controllers and remote operating stations properly labeled?	GSO 305C	
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D	
WORKBENCHES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650	
(INSPECT) ELECTRICAL SAFETY		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G	

Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
(INSPECT) ELECTRICAL SAF	ETY (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1- 3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLIN	G
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	

(INSPECT) CABLING (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were cables pulling out of equipment?	GSO 331E	
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1	
Were cables protected against being handholds or being stepped on?	GSO 304E	
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E	
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11	
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E	
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4	
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310	
(INSPECT) BUS TRANSFER E	QUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
 Were ABT's installed for the following: Emergency Lighting. IC Switchboard and panels. Steering power panel. Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control. Fire pumps. Fire extinguishing auxiliaries and controls. 	NSTM 320-1.3.2 GSO 320D	
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234	
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from being closed at the same time?	NSTM 300-4.8.4.2	

Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHON	E SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTOR	S
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	<u> </u>
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CA	BLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2

Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
CASUALTY POWER CABLE	S (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or	NSTM 300-4.3.3 GSO 300D NSTM 300-4.3.3
missing covers?	
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water	NSTM 300-4.4.1
intrusion?	NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug could not be removed from an energized receptacle?	NSTM 320-1.4.1
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320

outlets labeled to prevent equipment being used with		
the wrong frequency?	TE OXIGIDENTO	
SOUND POWERED TELEPHONE SYSTEMS		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I	
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430	
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2	
(INSPECT) LIGHTIN	G	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were darken ship switches operative and adjusted properly?	NSTM 330-3	
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4	
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2	
Were light fixtures missing lenses, protective guards, o faceplates?	r NSTM 330-2	
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4	
Did diesel module room have adequate lighting?	GSO 331B/332E	
(INSPECT) BATTERY LO	CKERS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was a Battery Log maintained?	NSTM 313-2 GSO 313F	
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313	
Test ventilation interlocks	3131/S-2	
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	5100.19 C0904 GSOF	
Is each locker provided with: - Rubber Gloves and Aprons. - Goggles. - Two battery fillers.	5100.19 GSO 313F NSTM 313	
Two battery test sets. One soda water container. Does the locker contain on eye week station and a	NSTM 313-2	
Does the locker contain an eye wash station and a deluge shower?	INSTIVI 313-2	

(INSPECT) BATTERY LOCKERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Are battery storage racks greater than 12 inches between tiers?	GSO 313F	
Were battery hold-down clamps provided?	GSO 313F	
Are Acids stored in appropriate protective containers?	GSO 313F	
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F	
(INSPECT) MISCELLANEOUS E	QUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1	
Is hardwired electrical equipment permanently mounted?	NSTM 330-1	
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7	
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5	
Were Surge Protectors of the approved type?	3000 / A-4R	
Are portable electric device power cords properly tinned?	3000 / Q-1R	
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2	
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.	
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D	
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B	

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2	
Were dress ship light receptacles labeled "Dress Ship		
Light Streamers. Not to be used for any other purpose"?		
	NSTM 330-1-	
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?		
	NSTM 330-1	
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?		
	IAW PMS	
Was UPS electronic cabinet bottom sealed to prevent	GS0 300D/324D	
water of oil entry from lower level engine room?	NSTM 300-4	

ELECTRICAL (EL) POST-UNDERWAY

DDG 51

	OPEN AND INSPECT AS REQUIRED BY THE INSPECTION	
CC	OMPONENT/SYSTEM	PROPOSED PROCEDURE

MAIN PROPULSION (MP) PRE-UNDERWAY PHASE DDG 51

2340	MAIN ENGINES	
Component/Sub-Component		Proposed Procedure
Test Blow in I	Doors	2513/007 (S-9)
Test GTM Fire	Extinguishing System	2521/051 (S-9)
- Halon/C02 B	ottles	5553/001 (S-2R)S-9
- Conduit/actu	ation cables	2521/051 (S-4)
- Hoses/fitting	s/check valves	
- Time delay		
Inspect Gas Tu		EOP GTMI
- Gas Generato	<u> </u>	GGTB 17, REV A
- Power Turbin	•	S96430-AE-TED-010
	r box and components	
- Bleed Air Manifold		
-	Enclosure Interior/Exterior and bonding	2340/004 (R-20)
/grounding stra		2340/004 (R-26)
	nical directives have been installed	GTB/MGTESR
Inspect LOSC.	A	EOP SOLA
Instruments, ga	auges and thermometers	JFMM VOL 4
Inspect Intake	•	2513/004 (S-7)
Inspect Intake	Plenum	MLOC
Inspect Bell M	Touth Screen	NSTM 234
Inspect Demister Pads/Gaskets/Frames		2513/007 (S-7)
Inspect Intake (Silencer level)		2340 (R-12)
Conduct LP A	ir Start and GTM Idle Checks	EOP CAMS
Conduct HP A	ir Start and GTM Idle Checks	EOP CAMS
Conduct Meth	anol Test	NSTM 262-5.4.2.1

2411	REDUCTION GEARS	
Component/Su	ib-Component	Proposed Procedure
Test Shaft Tur	ning Gear	EOP MRTG
Test GTM PT	Brake Assemblies	EOP CMSI
		2411 24M-2 M-1R
Inspect Lube (Oil Condition/sump level	2000/001 (R-1)
Inspect MRG	Interior	2411 (A-5)
- Gear Teeth c	ontact/condition	NSTM 241
- Lube Oil Spr	•	
- Casing Interi		
	Pump Angle Drive Gear	
	P Angle Drive Gear	
	Ianual Lock-out Mechanism operation	
	ne Break Piston Travel	
- Input Shaft S		
Inspect Oil Flo	ow in SFI's	NSTM 241
Instruments, g	auges and thermometers	JFMM V4
Inspect Casing	Exterior	NSTM 241
Inspect Vent F	og Precipitator	EOP RGVS
Inspect Dehun	nidifier	EOP RGVS
Inspect Securi	ty Devices	NSTM 241-4.2.3
Inspect Flange	Shielding	NSTM 505
Inspect Piping Systems		NSTM 505

2441	LINE SHAFT BEARINGS	
Co	omponent/Sub-Component	Proposed Procedure
Inspect Lube (Oil Condition/sump level	2000/001 (R-1); MLOC
Inspect Sump	Drain Valve	2000/001 (R-1); MLOC
Inspect Seals		NSTM 244-2.6.30
Instruments, g	auges and thermometers	JFMM V4
Inspect Lubricator		EDORM
Inspect Dip St	ick	EDORM
Inspect Lock Wires		EDORM
Inspect Bearin	g Depth Micrometer Surface	EDORM
Inspect Foundation		EDORM

2400	STERN TUBE SEALS	
Comp	oonent/Sub-Component	Proposed Procedure
Test Cooling Water	er Low Flow Alarm	2411/018 (S-1)
Test Inflatable Sea	al	2400 (S-2)
Instruments, gauges and thermometers JFMM V4		JFMM V4
Inspect Cooling Water Piping NSTM 505		NSTM 505
Inspect Cooling Water Strainer/Filter EOP STCW		EOP STCW
Inspect LP Air Supply NSTM 505		NSTM 505
Inspect LP Piping/Hoses/Fittings NSTM 505		NSTM 505
Inspect CO2/N2 Bottles/Piping/Fitting 2400/013 (24M-3R)		2400/013 (24M-3R)
Inspect Emergency Flax Packing Kit NSTM 244		NSTM 244
Inspect Backing R	Inspect Backing Ring NSTM 244	

2451	CRP SYSTEMS	
Component/Sub-C	Component	Proposed Procedure
Inspect CRP Head	l Tank	EDORM
Verify Calibration	between Consoles and OD box	EOP CPPT
Test Slew Rate		EOP CPPT
Test Command Pi	tch Mismatch Alarm	EOP EOT
Test Emergency P	ritch Pump	SEAH
Inspect HOPM		EOP CPPC
- Flex Hoses		2451/006 (24M-1R)
- Piping		NSTM 505
- Instruments, gau	ges and thermometers	CRL
- Flange Shields		
Inspect Electric C	RP Pump	EOP
- Motor		NSTM 503-5.3.8.1.2.
- Controller		2451 R-11
- Pump		
- Mechanical Seal		
	ges and thermometers	
- Flange Shields		
Inspect Oil Condit	tion	2451/006 (R-1W)
Inspect Attached (CRP Pump	NSTM 503-5.3.8.1.2.
- Inspect Mechani	cal Seal	

2620	LUBE OIL SYSTEMS	
Component/Sub-C	Component	Proposed Procedure
Test MRG Lube C	Dil Sequencing	2620/013 (S-2)
Test/Inspect Lube	Oil Strainer	EOP LODS
Test Lube Oil Pur	ifier and Heater	EOP LOPO
Inspect Electric M	IRG Lube Oil Pump	EOP CLOP
- Motor	_	2451/006 (24M-1R)
- Controller		NSTM 503-5.3.8.1.2.
- Pump		NSTM 505
- Mechanical seal		JFMM V4
- Piping /flex hose	es	
- Relief valves		
- Instruments, gauges and thermometers		
- Flange Shields		
_	MRG Lube Oil Pump	2451/006 (24M-1R)
- Mechanical seal		NSTM 503-5.3.8.1.2.
- Piping/flex hoses	S	NSTM 505
- Relief valve		CRL
	ges and thermometers	
- Flange Shields		
	re Regulating Valve	LOSRG
Inspect Unloading	y Valve	LOSRG
Inspect Lube Oil I	Purifier	2451/006 (24M-1R)
- Motor		NSTM 503-5.3.8.1.2.
- Controller		NSTM 505
- Piping/flex hoses	S	CRL
- Relief valve		
	ges and thermometers	
- Flange Shields		

2610	FUEL OIL SYSTEMS	
Comp	oonent/Sub-Component	Proposed Procedure
Test Fuel Oil Pum	p Logic Sequencing Circuitry	2610/059 (S-12)/FOTG
Test Service Tank	Suct/Recirc Valves	EOP CFOP
Test Quick Closin	g Valves	EOP CFOP
Test Coalescer Fil	ter Shift Points	
Test GTM Fuel Oil Solenoid Trip Valves		EOP CFOP
Inspect Booster Pumps		EOP CFOP
- Motor		2451/006 (24M-1R)
- Controller		NSTM 503-5.3.8.1.2.
- Flexible couplin	g	NSTM 505
- Mechanical seal		
- Piping		
- Relief valves		
Inspect fuel oil se	rvice heater	2610/059 (A-9)
Inspect instrumen	ts, gauges and thermometers	JFMM V4

2521	CONTROLS	
Comp	oonent/Sub-Component	Proposed Procedure
Test PACC Alarm	ns and Indicators	EOP CPPT
Test PLCC Alarm	s and Indicators	EOP CTAI
Test EOT Wrong	Test EOT Wrong Direction Alarm EOP EOT	
Test PACC on UPS 2521/051 (A-12)		2521/051 (A-12)
Inspect PACC instruments JFMM V4		JFMM V4
Inspect PLCC instruments		JFMM V4
Inspect Torsionmeter calibration		JMM V4
Inspect 800 Group Print		EOP CPSA; 2451 R-1W
Inspect and Test E	Bell	EOP CPSA; 2451 R-1W

	HULL STRUCTURE	
Compone	nt/Sub-Component	Proposed Procedure
Bilges		NSTM 631; MLOC
Deck Plates		EOP MLOC
Equipment Foundation	ns	NSTM 631
Pipe Brackets/Hangers	s	NSTM 505
Paint and Preservation	1	NSTM 631

5516	BLEED AIR SYSTEMS	
Component/Sub-Component		Proposed Procedure
Test Motor Air Re	eg valve	5000/005 S-6
Test Masker Air T	Transfer Valve	5000/005 S-6
Test Mixing Bypa	ss valve	5000/005 S-6
Test PRAIRIE Air	r Cooler inlet valve	5000/005 S-6
Test GTM 16 th Sta	age Bleed Air valves	5000/005 S-6
Test GTG 14 th Sta	ge Bleed Air valve	5000/005 S-6
Test GTG Start Air Cooler inlet valve		5000/005 S-6
Test HP Start Reg	valve	5000/005 S-6
Inspect GTM Blee	ed Air Reg valves	5000/005 S-6
Inspect GTG Blee	d Air Reg valve	5000/005 S-6
Inspect Prairie Air	r Roto Seal	5000/005 S-6
Inspect Flex hoses	3	5000/009 A-2
Inspect GTG Start	Air Cooler	EOP CBAM
Inspect instrumen	ts, gauges and thermometers	JFMM V4
Inspect Piping/Fit	tings	NSTM 505
Inspect Masker A	ir Cooler	BMPA
Inspect Masker A	ir Cooler relief vlv	BMPA
Inspect Prairie Air	r Cooler	BMPA
Inspect Prairie Air	r Cooler relief vlv	NSTM 505
Inspect drain orifi	ces	NSTM 505

FUEL OIL	FUEL OIL XFER SYSTEMS	
Component/Sub-Component	Proposed Procedure	
Test/operate Fuel Oil Purifier	EOP RSFT	
Inspect Transfer Pumps	EOP FOPO	
- Mechanical seal	2451/006 (24M-1R)	
- Piping/flex hoses	NSTM 503-5.3.8.1.2.	
- Relief valves	NSTM 505	
- Flange shields		
Inspect fuel oil transfer heater	EOP FOPO	
Test Motor Operated Valves	5000/001 A-1	
Inspect fuel oil transfer and ballast consol	EOP CAF	
Test Local Fuel Control Console Alarms and		
Indicators		
Inspect instruments, gauges and thermometers JFMM V4		
GAS TURBINI	GAS TURBINE GENERATORS	

Test operation of RPM and temperature circuits Test Fire detection and protection circuitry Test LOCOP Alarms and Indicators Test speed pickup Test blow-in door automatic operation Inspect Turbine Enclosure - Compressor - Accessory Gear box - Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Starter - Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter - CO2 Bottles - Conduit/actuation cables - Hosses/fittings/check valves Inspect Fire Fighting System - CO2 Bottles - Conduit/actuation cables - Hosses/fittings/check valves Inspect GTF Flex Hoses Inspect GTF Flex Hoses Inspect GTF Flex Hoses Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. Verify and Conduit/Cast opponent - Verify and Cables and average monitor - Verify and Cables and Inspect Condition and Cables an	Component/Sub-Component	Proposed Procedure
Test LOCOP Alarms and Indicators Test speed pickup Test blow-in door automatic operation Inspect Turbine Enclosure Compressor Compress	Test operation of RPM and temperature circuits Test	3113/004 (R-20)
Test speed pickup Test blow-in door automatic operation 3431/002 (S-5); MLOC; NSTM 234 Inspect Turbine Enclosure - Compressor - Compressor - Accessory Gear box - Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables. - Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - CO2 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. Verify FADAC installed. Verify FADAC installed. Verify FADAC component/Sub-Component Proposed Procedure		S9234-BC-MMO-010
Test blow-in door automatic operation 3431/002 (S-5); MLOC; NSTM 234 Inspect Turbine Enclosure 3113/006 (24M-2R/R-9) Compressor EOP GTGI GGTB 17 Accessory Gear box 3431/002 S-5 Combuster 3431/002 S-5 State Air Manifold Electrical Wiring and Cables Thermocouple harness and junction box 5th and 10th stage bleed air valves Elastomers Engline side mounts Enclosure Exterior Enclosure Interior Inspect Reduction Gear Enclosure Flectrical Wiring and Cables Reduction gear vent piping PTO shaft housing speed pick-up Reduction gear lube oil sump level Starter Inspect Fire Fighting System CO2 Bottles Conduit/actuation cables Hoses/fittings/check valves Inspect Module Mounts Inspect GTG Flex Hoses Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits Inspect thermocouple spread and average monitor Verify MG directive installed Verify if FADAC installed Verify if FADAC installed Verify of Froposed Procedure Start GTG Verify all CAS Component/Sub-Component Proposed Procedure	Test LOCOP Alarms and Indicators	
Inspect Turbine Enclosure Compressor Compressor Accessory Gear box Diffuser Case Combuster Bleed Air Manifold Electrical Wiring and Cables Thermocouple harness and junction box Sth and 10th stage bleed air valves Enclosure Exterior Enclosure Exterior Enclosure Interior Inspect Reduction Gear Enclosure Electrical Wiring and Cables. Reduction gear vent piping PTO shaft housing speed pick-up Reduction gear lube oil sump level Starter Inspect Fire Fighting System CO2 Bottles Conduit/actuation cables Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits Inspect thermocouple spread and average monitor Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. Verify Inspect MICAS) Component/Sub-Component Proposed Procedure	Test speed pickup	
Inspect Turbine Enclosure - Compressor - Accessory Gear box - Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - CO2 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect Module Mounts - Inspect GTG Flex Hoses - Inspect GTG Flex Hoses - Inspect instruments, gauges and thermometers - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed Verify Eroposed Procedure 3113/006 (24M-2R/R-9) EOP GTGI - GTB I7 3431/002 S-5 3113/004 R-12 - Startar - Startar - Startar - EOP GTGI - Startar - Startar - EOP GTGI - Startar - Starta	Test blow-in door automatic operation	
- Compressor - Accessory Gear box - Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5 th and 10 th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - Proposed Procedure	Inspect Turbine Enclosure	
- Accessory Gear box - Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect GTG Flex Hoses Inspect GTG Flex Hoses Inspect GTG Flex Hoses Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. Verosee GGTB 1 Proposed Procedure		
- Diffuser Case - Combuster - Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - Component/Sub-Component Proposed Procedure		GGTB 17
- Bleed Air Manifold - Electrical Wiring and Cables - Thermocouple harness and junction box - 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. New Fund Name Seessment System (ICAS) - Component/Sub-Component		3431/002 S-5
- Electrical Wiring and Cables - Thermocouple harness and junction box - 5 th and 10 th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts - Inspect GTG Flex Hoses - Inspect instruments, gauges and thermometers - Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - Component/Sub-Component	- Combuster	3113/004 R-12
- Thermocouple harness and junction box - 5 th and 10 th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts - Inspect GTG Flex Hoses - Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - Component/Sub-Component	- Bleed Air Manifold	
- 5th and 10th stage bleed air valves - Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	- Electrical Wiring and Cables	
- Elastomers - Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	- Thermocouple harness and junction box	
- Engine side mounts - Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts - GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses - Inspect instruments, gauges and thermometers - Inspect instruments, gauges and thermometers - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - Component/Sub-Component - Proposed Procedure	- 5 th and 10 th stage bleed air valves	
- Enclosure Exterior - Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. Inspect POFTGI EOP GTGI FOFTCW; 3431/002 Q-8R Value (23699) 2000/001 (R-1) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses GGTB 6 REV 1 Inspect instruments, gauges and thermometers JFMM V4 Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Elastomers	
- Enclosure Interior Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. Integrated Condition ASSESSMENT SYSTEM (ICAS) - Component/Sub-Component - Proposed Procedure		
Inspect Reduction Gear Enclosure - Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Enclosure Exterior	
- Electrical Wiring and Cables Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Enclosure Interior	
- Reduction gear vent piping - PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Inspect/shift duplex seawater cooling strainers EOP STCW; 3431/002 Q-8R Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses GGTB 6 REV 1 Inspect instruments, gauges and thermometers JFMM V4 Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	Inspect Reduction Gear Enclosure	EOP GTGI
- PTO shaft housing speed pick-up - Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Inspect instruments, gauges and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt Verify if FADAC installed. Veroposed Procedure	- Electrical Wiring and Cables.	
- Reduction gear lube oil sump level - Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Inspect Module Mounts Inspect Module Mounts Inspect GTG Flex Hoses Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Inspect instruments, gauges and thermometers Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles Inspect MG directive installed. Inspect MG directive installed		
- Starter Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers Inspect/shift duplex seawater cooling strainers Inspect/shift duplex seawater cooling strainers Inspect Module Mounts Inspect Module Mounts Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Inspect instruments, gauges and thermometers Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. - Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	- PTO shaft housing speed pick-up	
Inspect Fire Fighting System - C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers EOP STCW; 3431/002 Q-8R Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component		
- C02 Bottles - Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers EOP STCW; 3431/002 Q-8R Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Starter	
- Conduit/actuation cables - Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers EOP STCW; 3431/002 Q-8R Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	Inspect Fire Fighting System	5531/026 M-1
- Hoses/fittings/check valves Inspect/shift duplex seawater cooling strainers EOP STCW; 3431/002 Q-8R Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses GGTB 6 REV 1 Inspect instruments, gauges and thermometers IFMM V4 Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component		
Inspect/shift duplex seawater cooling strainers Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses GGTB 6 REV 1 Inspect instruments, gauges and thermometers JFMM V4 Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Conduit/actuation cables	
Verify Engine lube oil sump level (23699) Inspect Module Mounts GGTB 10 REV 1 AMED. A Inspect GTG Flex Hoses GGTB 6 REV 1 Inspect instruments, gauges and thermometers JFMM V4 Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	- Hoses/fittings/check valves	
Inspect Module Mounts Inspect GTG Flex Hoses GGTB 10 REV 1 AMED. A GGTB 6 REV 1 Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits Inspect thermocouple spread and average monitor Verify MG directive installed. New Fuel nozzles installed with air alt. Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component	Inspect/shift duplex seawater cooling strainers	EOP STCW; 3431/002 Q-8R
Inspect GTG Flex Hoses Inspect instruments, gauges and thermometers Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits Inspect thermocouple spread and average monitor Verify MG directive installed. New Fuel nozzles Inspect thermocouple spread and average monitor Verify MG directive installed. New Fuel nozzles Inspect GTG REV 1 GTGMS Verify MG directive installed. New Fuel nozzles Inspect GTG REV 1 INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	Verify Engine lube oil sump level (23699)	2000/001 (R-1)
Inspect instruments, gauges and thermometers Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles yES NO installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	Inspect Module Mounts	GGTB 10 REV 1 AMED. A
Start GTG Verify all Start/Operating limits - Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles YES NO installed with air alt Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	Inspect GTG Flex Hoses	GGTB 6 REV 1
- Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles YES NO installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	Inspect instruments, gauges and thermometers	JFMM V4
- Inspect thermocouple spread and average monitor - Verify MG directive installed. New Fuel nozzles YES NO installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure		GTGMS
- Verify MG directive installed. New Fuel nozzles YES NO installed with air alt. - Verify if FADAC installed. YES NO INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure		
installed with air alt. - Verify if FADAC installed. INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure		YES NO
INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure		
INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) Component/Sub-Component Proposed Procedure	- Verify if FADAC installed.	YES NO
Component/Sub-Component Proposed Procedure		•
		1 1
verify operational status of each workstation	Verify operational status of each workstation	•

Verify number of required portable data terminals	
(PDT) and that they are operational	
Verify number of required portable diagnostic aids	
(PDA) and that they are operational	
Are any critical system errors shown in the system	
log?	
Ensure data for at least two routes from actual rounds	
Ensure data from Data Acquisition devices is being	
received as required	
Verify Demand Data is received and processed	
accurately	
Verify database data is received and processed	
accurately	
Ensure router connections are operating properly	
Ensure remote demand data and database data are	
available to be viewed.	
Verify all required system links are available	
Verify all ICAS printers are operational	
Verify picture book is available for vibration checks	
Verify vibration data is being taken per PMS	
Verify vibration disc are installed on all equipment	
Conduct vibration surveys on selected equipment	
during the full power demonstration	
Inspect all cabinet air filters	
Inspect all ICAS computer equipment	
Inspect computer internal shocks and fans	

RMISS CHECK LIST	REF/Setting
N1 Overspeed Shutdown (RPM)	53500
N2 Backup (external) Overspeed (RPM)	53500
N2 (NPT) Overspeed Shutdown (RPM)	34500
MGT TOT Backup Overtemp Shutdown	1550 deg F
MGT TOT Overtemp Shutdown	1550 deg F
RIMSS SHUTDOWNS	PRELIMINARY PMS CARD
N2 OVERSPEED SHUTDOWN	34,500 (+/-) 200 RPM
SLOW START FAIL TO REACH 27500 RPM	REACH 27500 WITH 30 SEC
N2 ROTATION FAILURE SHUTDOWN	15 SEC AFTER 44,050 RPM
N1 UNDERSPEED	27,550 (+/-) 200 RPM
N1 MAGNETIC PICKUP FAIL SHUTDOWN	VERIFY INDICATION
MGT OVERTEMP/EXTERNAL OVERTEMP	1550 DEG
MGT T/C FAILURE	VERIFY INDICATION
FLAMEOUT	15 SEC AFTER N1
	REACHES
	6120 RPM
RUN LUBO PRESS LOW	60 (+-) 5 PSIG
MOTOR LUBO PRESS LOW	10 PSIG 3 SEC AFTER
	MOTOR IS INITIATED
FULE VLV POSITION ERROR	N1 SPEED 10,000 "FUEL
	VLV POS ERROR WITH 10
	SEC AFTER N1 INCREASE
EXHAUST DAMPER CLOSED	VERIFY SHUT
HIGH TORQUE	116 (+-) 10 PSIG

MAIN PROPULSION (MP) UNDERWAY PHASE DDG 51

22302	
FULL POWER AND QUICK REVERSAL DEMONSTRATIONS	
Demonstrate Auto Plant Mode Logic (Split plant to	EOP CSSF
Full Power)	
Demonstrate Full Power ahead (1 hour)	2340/004 (R-9)
	EOSS/POG/9094.1B
Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS
Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS
LUBE OIL PURIFIER DEMONSTRATION	
Demonstrate purifier operation	EOP LOPO
FUEL OIL TRANSFER DEMONSTRATION	
Demonstrate fuel oil purifier (s) operation	EOP FOPO
Demonstrate purifier (s)emergency stop capability	EOP FOPO

PRAIRIE/ MASKER/BLEED AIR SYSTEM DEMONSTRATIONS	
	Proposed Procedure
Verify operation and calibration of all gauges and	JFMM V4
instruments	
Test GTM and GTG check valve operation	EOP BSAA, 5516 (24M-1R)
Measure masker air flow rates to emitter belts in	5516/004 R-2Q
MER 1 and MER 2	
Measure Prairie air flow rates in MER 1 and MER 2	5516/004 R-2Q
Measure masker air flow rates to main strut fairwater	5516/004 R-2Q
and main strut rope guard	